



Ø BEAT

COLORADO SPRINGS,
COLORADO

DECEMBER 1983

Does The PPRAA Need A Repeater?

MOTION TO ESTABLISH CLUB REPEATER

The following is a motion to be presented at the December 14 meeting of the P.P.R.A.A.

Whereas: The Pikes Peak Radio Amateur Association (PPRAA) is public service organization and has been recognized by the ARRL as such, and;

Whereas: The Colorado Springs chapter of the American Red Cross has asked the PPRAA for ongoing assistance in routine and emergency situations requiring communication, and;

Whereas: The PPRAA has in excess of one hundred members, many of whom are involved in the use and experimentation of 2-meter FM radio communications, and;

Whereas: The Colorado Springs area has fourteen 2-meter FM repeaters without a unified plan for their use, and;

Whereas: The Amateur Radio Emergency Service (ARES) has demonstrated a need for full area wide coverage for net and emergency operations on 2-meter FM, Be It Therefore Moved and Passed by the PPRAA; That the PPRAA, through sponsorship or ownership; for the improvement of public service capability, encouragement of amateur radio activity, for unity of the area amateur radio operators, and to permit full area wide 2-meter coverage; acquire a 2-meter FM repeater, Said repeater use would be allowed to all properly licensed operators without regard to club affiliation, Said repeater acquisition is not to cause an increase of dues to members of the PPRAA and expenses to be covered in a manner approved by membership action at a later date, Said FM repeater acquisition not to interfere with nor replace other PPRAA activities such as the HF station or radio classes, Said repeater to be maintained in accordance with good operating practices by those

appointed and approved by the board of the PPRAA at a date after acquisition of the repeater. Further, that passage of this motion will be made known to all parties mentioned (ARES, Red Cross, etc.) with an open invitation for all radio amateurs to join PPRAA and ARES.

Discussion of the above motion will follow the rules set down in the report of the November 14 minutes of the Board of Directors.

MEETING NOTICE

The December meeting of the Pikes Peak Radio Amateur Association will be held on December 14 at 7:30 p.m. at the Palmer House Motel on N. Chestnut Street (just north of I-25 and Fillmore.) Homebrew night is scheduled with prizes for the best project. An important motion concerning the establishment of a club repeater will be debated on and decided, so make sure that you come and have a voice in a new direction for the club.

All members and other interested persons are encouraged to attend.

SPACE

Air Force Major General James A. Abrahamson says that NASA will allow UoSAT B to be a secondary payload on the LANDSAT-D' mission, scheduled for launch in February or March 1984. However, some repackaging of UoSAT B will be required before the spacecraft will fit into the Delta 3920 launch vehicle. A "small" cost (\$25,000) will be incurred by NASA to fabricate a special interface/mounting unit to mate the satellite with the launch vehicle. NASA will be reimbursed for this cost.

Courtesy ARRL, ARRL Letter

P.P.R.A.A. DIRECTORS

PRESIDENT	▪ Joe Quintana NØENM 308 N. Foote 80909	635-2251
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Board Member	Dave Vierling NØDV 2511 N. Tejon 80907	473-0293

ZERO BEAT is published monthly in the interest of the the members of the Pikes Peak Radio Amateur Association Inc., Colorado Springs, Colorado. Permission is given to reprint articles or excerpts provided credit is given. Deadline for submission of articles is the 21st of the month. Classifieds accepted anytime.

The Pikes Peak Radio Amateur Association meets on the second Wednesday of each month at the Palmer House Motel, I-25 and Fillmore, at 7:30 p.m. All amateurs and interested parties are invited to attend.

Editor: Don Lohse KBØKQ, 1410 E. LaSalle, Colorado Springs, CO 80907 635-7469.

MEETING MINUTES

The regular meeting of the Pikes Peak Radio Amateur Association was called to order at 7:36 p.m. November 9, 1983. Forty five members and guests were present.

After introductions, Peter Frech and Bobby Hale of the local chapter of the American Red Cross were presented to the membership. They lead an interesting question and discussion period expressing their needs in general and at certain events such as the July 4th activities. A need was also expressed to better coordinate with the PPRAA in the area of emergency communications. In the U.S., the Red Cross is responsible for handling calls for disaster communication yet, locally, there is no one on the billets to handle calls. The Red Cross would like to work more closely with the club. Some discussion also centered around the need to participate in emergency practice and drills, the feeling was that the club members need better training and preparation if they are to be asked to help in an emergency.

After the break, the business meeting was conducted. the minutes as printed in O Beat were approved with the addition of Al's name, NØCMW, to the board minutes and the change of Joes call to NØENM. Also, a star needs to be added to Les' name on the masthead and the masthead corrected to reflect these changes.

Les, KCØNC, reported the treasury has a balance of \$25255.44 after expenses of \$154.75. Liability insurance in the amount of \$300,000 has been purchased for the club with a rider raising the amount to \$1,000,000 for the mall demo. Cost was \$100 for the year.

The Christmas party is scheduled for December 3rd at the Iron Springs Chateau. Dinner is at 6:00 p.m. and the cost is \$14.50 per person. The calling tree will be used to contact members with information and for reservations. A motion was made and seconded to approve the formation of a calling tree. Motion passed, Les will set up.

A motion was made and seconded to approve the color and style of badges (brown and gold with white letters). The motion passed.

Frank, KL7IPU, initiated a discussion on the acquisition of a repeater. He will present a proposal at the next regular meeting.

A trustee is still needed for the club license, WAØVTU. An extra class licensee is preferred.

There being no further business, the meeting adjourned at 10:10 p.m. The next meeting will be December 14th at the Palmer House.

*Respectfully submitted,
Mark, NØEPF, Secretary*



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One neat solution to use is the counterpoise radial. Use one quarter-wave wire radial for each band in use, hooked up to your transmitter ground terminal or if you're using an antenna tuner, to it's ground terminal along with your regular ground connection leading to a ground rod or cold water pipe. Use insulated wire and be sure to tape up the far end of the radial to prevent accidental RF burns to anyone, who might come in contact with it while you are transmitting.

A multiband radial can be made from inexpensive 4 or 5 conductor TV rotor wire by connecting together all of the leads on the end that attaches to the station and cutting off appropriate lengths on each of the separate conductors to achieve the quarter-wave lengths needed. Again, tape up the exposed ends of each conductor. The radials can be taped around the baseboard of the shack or better still, can be led outside. The radial should not be buried: it should be kept up at least a few inches or more off the ground and the far end should be left unconnected.

Use of the counterpoise radials will improve the operation of almost any radio station. You will be able to load your transmitter better, eliminating troublesome stray RF that can bite you or give you RFI. Most importantly, it will greatly increase the actual radiated output of any end-fed wire antenna used with your transmatch.

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UPGRADE EXAMINATIONS CHANGING

FCC released the 1984 Examination Schedule, and it has bad news for hams planning to upgrade during the coming year. Examination opportunities at the Field Offices have been reduced to being only quarterly — and the applicant must file with the Office approximately one month before the exam. Examination opportunities in cities not having a Field Office have been reduced or eliminated. Complete details of the schedule will appear in January QST.

Although it had been anticipated that FCC would phase out conducting Amateur Radio Examinations in its Field Offices as the Volunteer Exam program phases in, the reductions seem premature to many Amateur Radio observers. According to FCC sources, these reductions are the direct result of budgetary planning conducted approximately 18 months ago and have little to do with the Volunteer Exam program.

ARRL, ARRL Letter

EXPERIMENTAL RADIO LICENSE

According to an FCC news release dated October 20, the Commission has streamlined the rules for stations operating with an Experimental Radio license. The agency removed the mandatory routine reporting requirement for certain experimental authorizations and replaced it with a requirement to submit reports only upon specific Commission request as determined on a case-by-case basis. FCC also axed some technical requirements, and said it will instead require that occupied bandwidth, frequency tolerance and other transmitter characteristics of the experimental station be indicated on the application.

Additionally, the FCC chopped the requirement for filing a petition for rulemaking with an experimental application. Instead, a public notice will be issued to alert the public to experimental radio station authorizations.

Radio amateurs have traditionally requested experimental licenses to explore new technologies and spectrum prior to their entrance into the ham radio mainstream. Experimental licenses have been granted to hams making propagation studies in the future 18- and 24-MHz bands, as well as the new 902-928 MHz spectrum.

ARRL, ARRL Letter



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BOARD MINUTES

The board meeting of the Pikes Peak Radio Amateur Association was called to order at 7:30 p.m. November 14 in the home of Jake, NØCYR. Present were Jake, Joe NØENM, Mark NØEPF, Frank KL7IPU, Charlie KCØTI, and Les KCØNC who arrived later.

Joe suggested a need for the club to have its own antenna rotor. If club sponsored functions such as field day, mall demos, and other special events are to be successful a rotor is needed. Joe and Charlie were appointed as a committee to investigate the need of a rotor and make a recommendation to the board. This was presented as a motion which passed 5-2 (two proxies were voted).

Mark moved, Charlie seconded, to offer a first prize of \$30 cash and a second prize of \$20 cash to the winners at homebrew night December 14th. After discussion, the motion passed 6-1.

A report on the mall demo indicated it was a rousing success. Several potential novices and several potential new club members were discovered. Television and newspaper exposure was obtained. Several ARRL directors, including Bill Sheffield KZØJ, visited from Denver and lent their support. Forty to fifty traffic messages were also handled.

Frank moved, Charlie seconded that the board recommend to the members at the December 14 general membership meeting that the motion at that meeting concerning the repeater be passed. The motion passed 5-2 with 1 abstention.

Because of the interest generated in this issue, the President will conduct the discussion according to the following rules so that all members who so desire may have a chance to be heard. Each speaker will be given a two minute limit to speak to the motion yea or nay. Yeas and Nays will alternate. A member must be recognized by the chair in order to speak and may speak only once. A vote will be taken only by members in good standing. Proxies must be written and submitted to the secretary. Balloting will most likely be written and based on the current membership list.

In regard to the Red Cross, the majority consensus of the board is to work with them in the future as closely as possible. Joe will follow up with the Red Cross representatives.

It was found that it was not possible to meet the requirements of the college concerning the club station. Other site suggestions are welcomed.

Discussion was held concerning present club equipment and possibly upgrading to more portable and modern equipment. The inventory will be examined at the next board meeting along with the possibility of "raffleing" some equipment.

General upgrade classes will begin the first or second Wednesday after January 1st. Frank will conduct the theory portion. Someone is still needed to teach code. People interested in the upgrade classes should contact Mark.

The club will need to look at the new volunteer examiner program to see how it affects us. Charlie indicated that Darla, WBØDUV, wants to know of extra and advanced licensees willing to be volunteer examiners. Those persons should contact Charlie.

Jake indicated he needs a draw to buy refreshments for the Swapfest. Mark moved, Charlie seconded, to authorize the Snack Bar Committee to spend up to \$200

for refreshments (note: they will be reimbursed for expenditures). The motion passed unanimously.

Scheduled upcoming programs are: December — homebrew night; January — solid-state devices; February — Marconi presentation; March — Swapfest and severe weather; April — Swapfest final plans; May — Field Day speaker, if possible from the ARRL; June — Field Day preparations; July — possible presentation at a planetarium; August — picnic; September is open for suggestions.

The picnic will be arranged for August 12th with August 5th as a back-up date. It will take the place of the regular club meeting.

Frank moved, Charlie seconded, to approve the purchase of labels for computer printouts, the motion passed.

There being no further business before the board, the meeting adjourned at 10:08 p.m. the next meeting will be December 19th at Frank's home.

Respectfully submitted,
Mark, NØEPF, Secretary

WIAW Schedule

October 30, 1983 — April 25, 1984
WIAW code practice and bulletin transmissions are sent on the following schedule:
UTC Slow Code Practice
Fast Code Practice
Ce Bulletin
Teletype Bulletin
Voice Bulletin
EST Slow Code Practice
Fast Code Practice
Ce Bulletin
Teletype Bulletin
Voice Bulletin
CST Slow Code Practice
Fast Code Practice
Ce Bulletin
Teletype Bulletin
Voice Bulletin
PST Slow Code Practice
Fast Code Practice
Ce Bulletin
Teletype Bulletin
Voice Bulletin
Code practice and ce bulletin frequencies: 1.818, 3.58, 7.08, 14.07, 21.06, 38.06, 50.06, 147.550 MHz.
Teletype bulletin frequencies: 3.625, 7.096, 14.096, 21.096, 38.096, 147.555 MHz.
Voice bulletin frequencies: 1.89, 3.96, 7.28, 14.28, 21.38, 38.38, 50.18, 147.555 MHz.
On Monday, Wednesday and Friday, 1400 through 2200 UTC, transmissions are banned to Europe on 14, 21 and 38 MHz.
Slow code practice is at 5, 7, 12, 10, 13 and 15 wpm.
Fast code practice is at 35, 30, 25, 20, 15, 13 and 10 wpm.
Code practice texts are from QST and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds. For example: "Text is from July 1983 QST, pages 9 and 21" indicates that the main text is from the article on page 9 and the mixed numeral/letter groups at the end of each speed are from the contest scores on page 21.
On Fridays, UTC, 4 DX bulletin replaces the regular bulletin transmissions.
On Wednesdays at 2300 UTC, an IARU Region 2 bulletin in English and Spanish on 45-45 baud Baudot is sent on the regular teletype frequencies, banned to Central and South America.
WIAW bulletins are sent on OSCAR 10, Mode B, when the satellite is within range. Look for cv on 145.840 MHz and ssc on 145.972 MHz.
Teletype bulletins are 45-45 baud Baudot, 110 baud ASCII, and 100 baud AMTOR, FEC mode. Baudot, ASCII, and AMTOR in that order are sent during all 1600 UTC transmissions, and 2200 UTC on TTHSSN. During other transmission times, AMTOR is sent only as time permits.
Ce bulletins are sent at 18 wpm.
WIAW is open for visitors Monday through Friday from 7:30 A.M. to 1 A.M. EST and on Saturday and Sunday from 3:30 P.M. to 1 A.M. EST. If you desire to operate WIAW, be sure to bring a copy of your license with you. WIAW is available for operation by visitors between 1 and 4 P.M. Monday through Friday.
In a communications emergency, monitor WIAW for special bulletins as follows: voice on the hour, teletype at 15 minutes past the hour, and ce on the half hour.
WIAW will be closed on November 24 and 25, December 25 and 26, January 1 and 2, February 28 and April 29.

October 1983 QST

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Galaxy DC1000 mobile power supply \$25.
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